

# 10.3 Review

Grade: 8th

Subject: Physical science

Date: 2/14

Feb 14-9:40 AM

- 1 An abbreviated way to write an element's name is to use a(n) chemical symbol

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2 An atom's nucleus contains \_\_\_\_\_.

protons + neutrons

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3 An atom's atomic number is the number of protons in its nucleus.

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4 Protons and neutrons <sup>are</sup> ~~and~~ made up of smaller particles called quarks.

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5 A chlorine atom has 17 protons and 18 neutrons. What is its mass number?

neutrons or protons = 1 amu

mass # = protons + neutrons  
17 + 18

35

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6 From the previous problem, what is the atomic number of a chlorine atom that has 17 protons and 18 neutrons.

Atomic = # of protons in  
the nucleus

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## Chapter 10 Review

Grade: 8th

Subject: Physical Science

Date: 2/19/13

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1 The halogens are found in which group?

17

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2 Noble gases are found in which group?

18

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3 Horizontal rows on the periodic table are called periods.

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4 Elements next to the stair-step line are called metalloids.

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5 Groups 3 through 12 are called the \_\_\_\_\_ metals.

transition

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6 Who was the person who used his periodic table to make predictions about undiscovered elements?

Dimitri Mendeleev

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7 The elements on the periodic table are arranged by increasing atomic number.

(protons)

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8 The number of outer-most electrons determines the chemical properties of an element.

True

False

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9 An atomic particle with no charge is a(n) \_\_\_\_\_.

neutron

.

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10 An atomic particle with positive charge is a(n)

\_\_\_\_\_.

proton

.

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11 An atomic particle with a negative charge is a(n)

\_\_\_\_\_.

electron

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12 The average mass of the mixture of isotopes is the average atomic mass.

True

False

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13 The number of protons and neutrons in the nucleus is the atomic ~~number~~.

*mass*

True

False

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14 The tiny particle that makes up protons and neutrons is a

quark.

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15 The state of matter of most of the elements to the left of the stair-step line in the periodic table is \_\_\_\_\_.

- A gas
- B liquid
- C plasma
- D solid

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16 If a pattern repeats itself, it is \_\_\_\_\_.

- A isotopic
- B metallic
- C periodic
- D transition

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17 \_\_\_\_\_ is an element that would have similar properties to those of neon.

- A Aluminum
- ☒ B Argon
- C Arsenic
- D Silver

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18 Boron is a \_\_\_\_\_.

- A metal
- ☒ B metalloid
- C noble gas
- D nonmetal

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19 The element potassium (K) is a \_\_\_\_\_.

- A metal
- B metalloid
- C nonmetal
- D transition element

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20 The element bromine (Br) is a \_\_\_\_\_.

- A metal
- B metalloid
- C nonmetal
- D transition element

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21 The halogens are those elements in Group \_\_\_\_\_.

- A 1
- B 11
- C 15
- D 17

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22 In its group, nitrogen is the only element that is a \_\_\_\_\_.

- A gas
- B metalloid
- C metal
- D liquid

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23 \_\_\_\_\_ is a shiny element that conducts electricity and heat well.

- A Chlorine
- B Sulfur
- C Hydrogen
- D Magnesium

Feb 20-9:45 AM

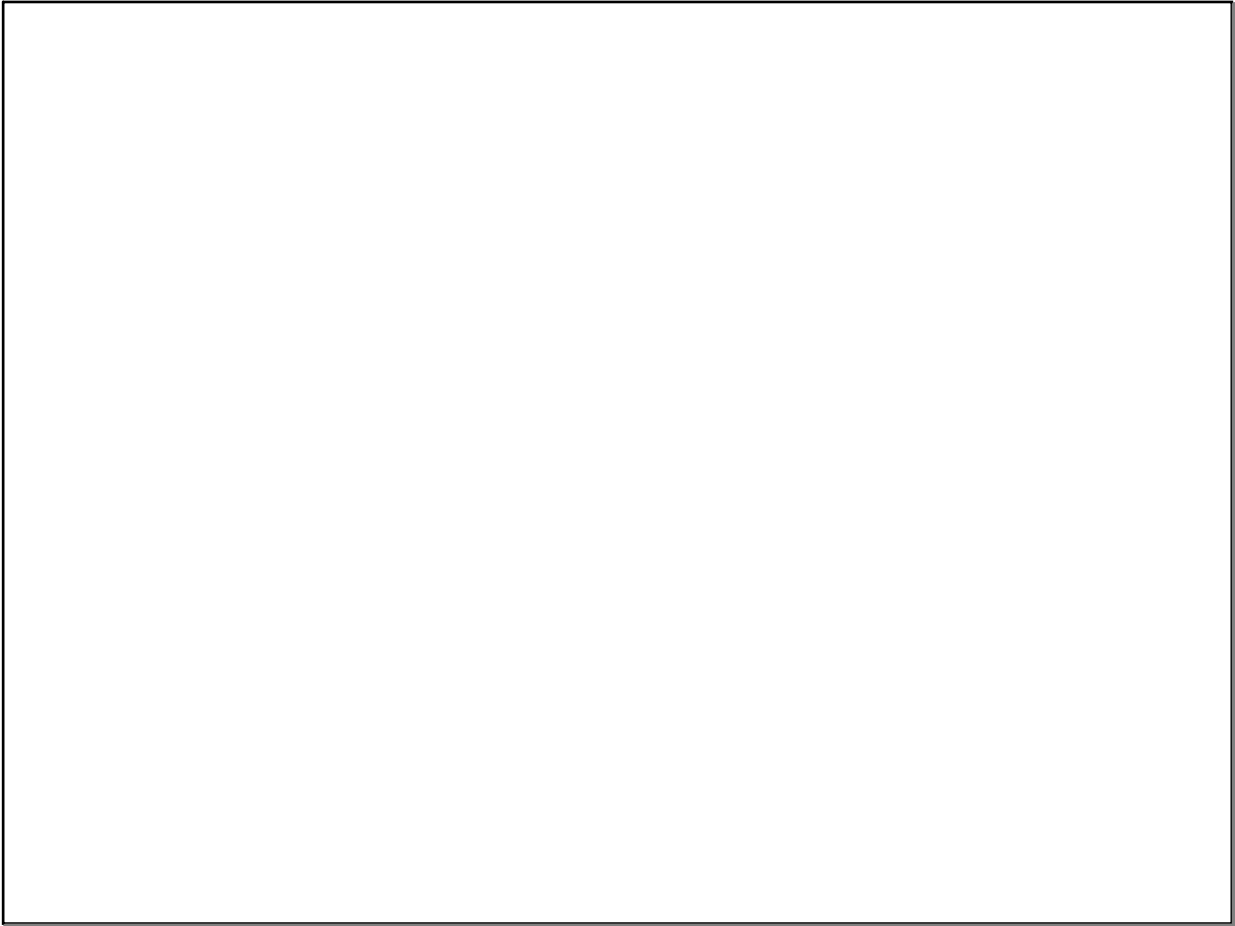
24 The atomic number of Re is 75. The atomic mass of one of its isotopes is 186. How many neutrons are in an atom of this isotope?

- A 75
- B 111
- C 186
- D 261

$$\begin{array}{r} 186 \\ - 75 \\ \hline 111 \end{array}$$

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